# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 01/12/2021 09:03 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 12/15/2020 11:39 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 91417 | Expiration Date: | 03/31/2021 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124434 | -1 | 3.09 | 124586 | 3.10 |
| Blue | F | SSC | 125000 | 123661 | -2 | 4.03 | 124795 | 4.03 |
| Blue | E | FITC | 14203 | 13641 | -4 | 3.33 | 296 | 15.39 |
| Blue | D | PE | 25703 | 25327 | -2 | 3.01 | 548 | 10.59 |
| Blue | B | PerCP-Cy5-5 | 42104 | 40721 | -4 | 3.65 | 910 | 14.80 |
| Blue | A | PE-Cy7 | 34646 | 33922 | -3 | 4.86 | 483 | 29.99 |
| Red | C | APC | 49824 | 49439 | -1 | 3.02 | 1517 | 11.40 |
| Red | A | APC-Cy7 | 39773 | 38879 | -3 | 3.08 | 727 | 11.89 |
| Violet | B | V450 | 7447 | 7137 | -5 | 3.98 | 396 | 13.38 |
| Violet | A | V500 | 31193 | 29940 | -5 | 3.81 | 678 | 10.42 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 21837 | 3.47 | 549 | -7 | N/A | N/A | Pass |
| Blue | F | SSC | 54156 | 3.59 | 512 | 0 | N/A | N/A | Pass |
| Blue | E | FITC | 55 | 51.89 | 484 | -2 | 0.0400 | 73 | Pass |
| Blue | D | PE | 109 | 38.02 | 486 | 1 | 0.4085 | 291 | Pass |
| Blue | B | PerCP-Cy5-5 | 171 | 36.16 | 578 | 1 | 0.0189 | 39 | Pass |
| Blue | A | PE-Cy7 | 109 | 64.63 | 622 | 2 | 0.0208 | 0 | Pass |
| Red | C | APC | 352 | 24.04 | 566 | -1 | 0.0281 | 110 | Pass |
| Red | A | APC-Cy7 | 202 | 24.42 | 542 | -2 | 0.0060 | 477 | Pass |
| Violet | B | V450 | 88 | 43.31 | 450 | 1 | 0.0417 | 1538 | Pass |
| Violet | A | V500 | 119 | 32.12 | 468 | 1 | 0.0255 | 1201 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 01/12/2021 09:03 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.86 | -31.63 | 0.99 |
| Blue | 20.35 | 16.27 - 24.41 | 1.28 | 0.99 - 1.49 | 0.00 | 0.00 | 1.40 |
| Red | 21.45 | 15.99 - 23.99 | N/A | N/A | 30.05 | 30.26 | 1.19 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.75

## Threshold

Threshold (FSC): 13363

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments